



TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-07-03-03
Sample ID No : 2018-07-03-03 /03

Date: 06-07-2018

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.29	-
2	Specific Gravity	2.52	-
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager



Page 2/2

****End of Report****



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-07-03-03 Date: 06-07-2018
Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address : T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to CC roads at MTS Colony cross roads in T.Dasarahalli in Ward No. 15.
Agency : Sri. KS Ramesh, No.127, 3rd Cross, Ramaiah Layout, Nagasandra Post, Bengaluru-560073
Customer Reference : EE/DD/WO/331/17-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-07-2018
Sample ID No : 2018-07-03-03 /02(b)
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 03-07-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	249	249	5.0	95.0	90-100
3	10 mm	3012	3261	65.2	34.8	25-55
4	4.75 mm	1598	4859	97.2	2.8	0-10
5	Pan	141	5000	100	0	-

Page 1/2

23

ಶ್ರೀ ಕೆ.ಎಸ್.ರಮೇಶ್
ಪ್ರಾ.ಪಂ.ಇಂಜಿನಿಯರ್
ಬೆಂಗಳೂರು, ಕರ್ನಾಟಕ
ಬೆಂಗಳೂರು

R. K. Ramesh



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-07-03-03
Sample ID No : 2018-07-03-03 /02(b)

Date: 06-07-2018

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.3	
3	Specific Gravity	2.61	—
4	Bulk Density(Loose) (Kg/l)	1.45	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.29	—
7	Aggregate crushing Value(%)	23.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

Lab.

Page 2/2
End of Report

Signature
ಬಿ.ಕಾರ್ತಿಕ ರೆಚನ್
ಪಾಲಿಟೆಕ್ನಿಕ್, ಬೆಂಗಳೂರು
ಬೆಂಗಳೂರು



FOR CIVIL Pro.
R. Karthik Rechan
R KARTHIK RECHAN
Authorized Signature
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-07-03-03
Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address : T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to CC roads at MTS Colony cross roads in T.Dasarahalli in Ward No. 15.
Agency : Sri. KS Ramesh, No.127, 3rd Cross, Ramaiah Layout, Nagasandra Post, Bengaluru-560073
Customer's Reference : EE/DD/VO/331/17-18
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 03-07-2018
Sample ID No : 2018-07-03-03 /02(a)
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 03-07-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken		:	15000	grams		
Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	523	523	3.5	96.5	90-100
3	20 mm	5041	5564	37.1	62.9	30-70
4	10 mm	6845	12409	82.7	17.3	10-35
5	4.75 mm	2145	14554	97.0	3.0	0-5
6	Pan	446	15000	100.0	0	---

Page 1/2

62

Shudayn
U. Madhava Rao
U. Madhava Rao



M : 9972924526 | Tel : +91 80 23444801 | E : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-07-03-03

Date: 06-07-2018

Sample ID No : 2018-07-03-03 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.3	
3	Specific Gravity	2.63	—
4	Bulk Density(Loose) (Kg/l)	1.42	—
5	Bulk Density(Compacted) (Kg/l)	1.49	—
6	Water Absorption(%)	0.29	—

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.



R KARTHIK RECHAN
Authorized Signatory
Quality Manager



Page 2/2

****End of Report****

623



ಕರ್ತವ್ಯ ನಿರ್ವಹಣಾ ಅಧಿಕಾರಿ
ಪ್ರಮಾಣೀಕೃತ, ಉಪ-ನಿರ್ದೇಶಕ
ಪ್ರಾಂಶುಪಾಲ, ಬೆಂಗಳೂರು
ಜಿಲ್ಲಾಪಾಲಿಕೆ

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-07-03-03 Date: 06-07-2018
Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address : T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to CC roads at MTS Colony cross roads in T.Dasarahalli in Ward No. 15.
Agency : Sri. KS Ramesh, No.127, 3rd Cross, Ramaiah Layout, Nagasandra Post, Bengaluru-560073
Customer's Reference : EE/DD/VO/331/17-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-07-2018
Sample ID No : 2018-07-03-03 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 04-07-2018
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.9	—
2	Finess by Air permeability method (m ² /kg, Min)	298.6	225m ² /kg, Min
3	Density (gm/cc)	3.15	—
4	Standard Consistency (%)	28.5	Not specified
5	Initial Setting time (minutes)	145	Not less than 30 minutes
6	Final Setting time (minutes)	265	Not more than 600 minutes
7	Soundness (Le Chatelier's Method) (mm)	1.5	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

63

Sudhakar

ಕಾರ್ಯಕರ್ತರ ಅಧಿಕಾರವು Page 1/1
****End of Report****



FOR CIVIL Pro.

R. Karthik Rechan

R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-07-03-03 **Date:** 01-08-2018
Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address : T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements to CC roads at MTS Colony cross roads in T.Dasarahalli in Ward No. 15.
Agency : Sri. KS Ramesh, No.127, 3rd Cross, Ramaiah Layout, Nagasandra Post, Bengaluru-560073
Customer's Reference : EE/DD/WO/331/17-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-07-2018
Sample ID No : 2018-07-03-03 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 04-07-2018
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results (N/mm ²)	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	40.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	56.5N/mm ²	Not less than 53 N/mm ²

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

b3

Signature
ಬಿ.ಕೆ.ಎಸ್. ರಮೇಶ್
ಟಿ.ದಾಸರಾಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲೂರಿ, ಬೆಂಗಳೂರು
ಜಿಲ್ಲಾಪಂಚಾಯತ್

Page 1/1
****End of Report****

FOR CIVIL Pro.

*Signature*R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

**HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |**